Abstract of the Disclosure:

In an oxide film etching, a plasma having a suitable CF₂, CF, F is necessary and there is a problem in which in accordance with a temperature fluctuation of etching chamber an etching characteristic is

Using/UHF type ECR plasma etching apparatus -fluctuated. having a low electron temperature, a suitable dissociation can be obtained, and temperature

adjustment range of a side wall afrom. stable etching characteristic can be obtained. Since the oxide film etching using the low electron temperature and high density plasma can be obtained, an etching result

having a superior characteristic can be obtained, and šide wall temperature adjustment range is

structure and a heat resistant

performance countermeasure can be performed easily.

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